

August 18, 2008

TO: ALL STATE AGENCIES, SCHOOL DISTRICTS, MUNICIPALITIES, VOLUNTEER
FIRE COMPANIES AND POLITICAL SUBDIVISIONS

FROM: SANDRA H. MCKINLEY
STATE CONTRACT PROCUREMENT OFFICER
302.838.8067

SUBJECT: **AWARD NOTICE**
CONTRACT NO. GSS-MU-08-170-SM
LAB & COMPRESSED GASES

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OF
KEY CONTRACT INFORMATION**

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KEY CONTRACT INFORMATION

1. MANDATORY USE CONTRACT:

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REF: Title 29, Chapter 6911(d) Delaware Code. Every state department and agency within the Executive Branch and Judicial Branch of the state government shall procure all material, equipment and nonprofessional services through the statewide contracts administered by Government Support Services, Office of Management and Budget. Delaware State University, Delaware Technical and Community College, the operations funded by Public School Districts, Delaware Transit Corporation, Department of Elections, the Legislative Branch and the Board of Pension Trustees and their consultants are specifically exempted from the requirements of this subsection.

2. CONTRACT PERIOD:

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Each vendor's contract shall be valid for a one (1) year period from September 1, 2008 through August 31, 2009. Each contract may be renewed for four (4) one (1) year periods through negotiation between the contractor and Government Support Services. Negotiation must be initiated no later than ninety (90) days prior to the termination of the current agreement.

3. VENDORS:

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VENDOR INFORMATION	
GTS-WELCO, INC	AIRGAS
2 Medori Blvd.	630 Naylor Mill Road
Wilmington, DE 19801	Salisbury, MD 21801
Phone 302.654.8755	Phone 800.247.2282
Fax 302.654.8770	Fax 410.742.1674
Federal E.I. #: 26-1202062	Federal E.I. #: 06-1463355
Attn: Patrick Christ	Attn: Timothy Wertz
E-Mail: patrick.christ@gtsgas.com	E-Mail: timothy.wertz@arigas.com

4. SHIPPING TERMS:

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F.O.B. destination.

5. DELIVERY AND PICKUP:

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See Appendix A spreadsheet

6. PRICING:

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Prices will remain firm for the term of the contract.
See Appendix A spreadsheet.

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7. BILLING:

The successful vendor is required to "Bill as Shipped" to the respective ordering agency(s). Ordering agencies shall provide at a minimum the contract number, ship to and bill to address, contract name and phone number.

8. PAYMENT:

The agencies or school districts involved will authorize and process for payment each invoice within thirty (30) days after the date of receipt. The contractor or vendor must accept full payment by procurement (credit) card and/or conventional check and/or other electronic means at the State's option, without imposing any additional fees, costs or conditions.

9. PRODUCT SUBSTITUTION:

All items delivered during the life of the contract shall be of the same type and manufacture as specified unless specific approval is given by Government Support Services to do otherwise. Substitutions may require the submission of written specifications and product evaluation prior to any approvals being granted.

10. ORDERING PROCEDURE:

Successful contractors are required to have either a local telephone number within the (302) area code, a toll free (800) number, or agree to accept collect calls. Each agency is responsible for placing their orders and may be accomplished by written purchase order, telephone, fax or computer on-line systems. The contractor or vendor must accept full payment by procurement (credit) card and/or conventional check and/or other electronic means at the State's option, without imposing any additional fees, costs or conditions.

11. HOLD HARMLESS:

The contractor agrees that it shall indemnify and hold the State of Delaware and all its agencies harmless from and against any and all claims for injury, loss of life, or damage to or loss of use of property caused or alleged to be caused, by acts or omissions of the contractor, its employees, and invitees on or about the premises and which arise out of the contractor's performance, or failure to perform as specified in the Agreement.

12. NON-PERFORMANCE:

In the event the contractor does not fulfill its obligations under the terms and conditions of this contract, the ordering agency may purchase equivalent product on the open market. Any difference in cost between the contract prices herein and the price of open market product shall be the responsibility of the contractor. Under no circumstances shall monies be due the contractor in the event open market products can be obtained below contract cost. Any monies charged to the contractor may be deducted from an open invoice.

13. FORCE MAJEURE:

Neither the contractor nor the ordering agency shall be held liable for non-performance under the terms and conditions of this contract due, but not limited to, government restriction, strike, flood, fire, or unforeseen catastrophe beyond either party's control. Each party shall notify the other in writing of any situation that may prevent performance under the terms and conditions of this contract.

14. AGENCY'S RESPONSIBILITIES:

The Agency shall:

- a. Examine and review in detail all letters, reports, drawings and other documents presented by the Contractor to the Agency and render to the Contractor in writing, findings and decisions pertaining thereto within a reasonable time so as not to delay the services of Contractor.
- b. Give prompt written notice to the Contractor whenever the Agency observes or otherwise becomes aware of any development that affects the scope or timing of the Contractor's services.

15. ANALYTICAL DATA SHEETS:

Vendors bidding on gases requiring Environmental Protection Agency (EPA) protocol must provide sample Analytical Data Sheets with their bids. The gases must be traceable to Standard Reference Material (SRM's) from the National Institute of Standards and Technology (NIST). Failure to do so will result in the bid being considered non-responsive. Analysis Data sheets will also be provided for all EPA protocol gases at time of delivery.

16. MSD SHEETS:

Material Safety Data Sheets (MSDS) must be supplied to the ordering agency at time of delivery, and a sample MSDS must accompany your bid.

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LAB AND COMPRESSED GASES
TECHNICAL SPECIFICATIONS

The gases bid must meet EPA Protocol (where specified) and be traceable to Standard Reference Material (SRM's) from the National Institute of Standards and Technology (NIST).

Cylinders provided by the successful vendor must have a compatible fitting to meet all valve outlets listed in the Technical Specifications or any newer requirements as required. Making the fitting with an adapter **is not** acceptable. The cost for meeting the compatibility requirement shall be borne by the vendor.

The State of Delaware will provide and maintain all on-site regulators with exception of the liquid nitrogen specification.

Treated aluminum cylinders have been specified for certain gases. Treated aluminum cylinders offer a significant weight reduction and allow for easier, safer handling by a single person. Cylinders will not be accepted if they do not meet this specification.

SECTION I:

A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES

ITEM 1. Hydrocarbon Free Air
Total Hydrocarbons: <0.1ppm as Methane
Valve Outlet: CGA 590
Cylinder Size: A
Content: Approx. 144 C.F.
Pressure: Approx. 2000 PSIG
Cylinder Type: Treated Aluminum

ITEM 2. Ambient Monitoring
Ultra Zero Air -
THC<0.05 ppm
CO<0.1 ppm
NOX<0.02 ppm
SO2<0.005 ppm
H₂O<5 ppm
CO₂ 315 - 385 ppm
O₂ CONTENT - 20 TO 21%
Valve Outlet: CGA 590
Cylinder Size: AL
Cylinder Type: Treated Aluminum
Pressure: Approx 2000 PSIG
Contents: Approx 144 C.F.

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LAB AND COMPRESSED GASES
TECHNICAL SPECIFICATIONS

A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES - Continued

- ITEM 3. Carbon Monoxide (CO)
PPM Range: 5 - 10ppm
Analysis Accuracy: EPA Protocol
Diluent Gas: Hydrocarbon - Free Air
Valve Outlet: CGA 590
Cylinder Size: CL
Content: Approx 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 4. Carbon Monoxide (CO)
PPM Range: 15 - 25ppm
Analysis Accuracy: EPA Protocol
Diluent Air: Hydrocarbon - Free Air
Valve Outlet: CGA 590
Cylinder Size: CL
Content: 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 5. Carbon Monoxide (CO)
PPM Range: 40 - 45ppm
Analysis Accuracy: EPA Protocol
Valve Outlet: CGA 590
Diluent Air: Hydrocarbon - Free Air
Cylinder Size: CL
Content: 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 6. Nitric Oxide (NO)
PPM Range: 45 - 55ppm
Analysis Accuracy: EPA Protocol
Diluent Gas: Nitrogen
Valve Outlet: CGA 660
Cylinder Size: CL
Content: Approx 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES - Continued

- ITEM 7. Sulfur Dioxide (SO₂)
PPM Range: 45 - 55ppm
Analysis Accuracy: EPA Protocol
Diluent Gas: Air
Valve Outlet: CGA 660
Cylinder Size: CL
Content: Approx 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 8. Nitrogen Dioxide (NO₂)
PPM Range: 45-55 ppm
Analysis Accuracy: EPA Protocol
Diluent Gas: Air
Valve Outlet: CGA 660
Cylinder Size: CL
Content: 28 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

B. CONTINUOUS EMISSION MONITOR AUDIT GASES

- ITEM 9. Propane and Toluene
PPM Range - Propane: 10 ppm
Toluene: 10 ppm
Analysis Accuracy: $\pm 1\%$
Diluent Gas: HC Free Air
Valve Outlet: CGA 350
Cylinder Size: BL
Content: 75 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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B. CONTINUOUS EMISSION MONITOR AUDIT GASES - Continued

- ITEM 10. Propane and Toluene
PPM Range - Propane: 50 ppm
Toluene: 50 ppm
Analysis Accuracy: $\pm 1\%$
Diluent Gas: HC Free Air
Valve Outlet: CGA 350
Cylinder Size: BL
Content: 75 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 11. Sulfur Dioxide (SO₂)
PPM Range: 100 ppm SO₂
Analysis Accuracy: EPA Protocol
Diluent Gas: Nitrogen
Valve Outlet: CGA 660
Cylinder Size: BL
Content: 75 CF
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 12. Sulfur Dioxide (SO₂)
PPM Range: 500 ppm SO₂
Analysis Accuracy: EPA Protocol 1
Diluent Gas: Nitrogen
Valve Outlet: CGA 660
Cylinder Size: BL
Content: 75 CF
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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B. CONTINUOUS EMISSION MONITOR AUDIT GASES - Continued

- ITEM 13. Nitric Oxide (NO)
PPM Range: 100 - 500 ppm as specified at time of order
Analysis Accuracy: EPA Protocol
Diluent Gas: Nitrogen
Valve Outlet: CGA 660
Cylinder Size: BL
Content: 75 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 14. Nitrogen Oxide (NO)
PPM Range: 500 ppm NO
Analysis Accuracy: EPA Protocol
Diluent Gas: Nitrogen
Valve Outlet: CGA 660
Cylinder Size: BL
Content: 75 CF
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

C. VEHICLE EMISSION ANALYZER AUDIT GASES

- ITEM 15. Carbon Monoxide and Propane (CO and C₃H₈)
PPM Range Propane: 1600 ppm
PPM Range Carbon Monoxide: 4%
Diluent Gas: Nitrogen
Analysis Accuracy: $\pm 1\%$
Valve Outlet: CGA 350
Cylinder Size: BL
Content: 75 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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C. VEHICLE EMISSION ANALYZER AUDIT GASES - Continued

- ITEM 16. Carbon Monoxide and Propane (CO and C₃H₈)
PPM Range Propane: 440 ppm
PPM Range Carbon Monoxide: 1.6%
Analysis Accuracy: $\pm 1\%$
Valve Outlet: CGA 350
Cylinder Size: BL
Content: 75 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 17. Carbon Monoxide, Propane and Carbon Dioxide (CO, C₃H₈ & CO₂)
PPM Range Propane: 600 ppm
PPM Range Carbon Monoxide: 1.6%
PPM Range Carbon Dioxide: 11%
Analysis Accuracy: $\pm 1\%$
Valve Outlet: CGA 350
Cylinder Size: AL
Content: 144 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum
- ITEM 18. Carbon Monoxide, Propane and Carbon Dioxide (CO, C₃H₈, CO₂)
PPM Range Propane: 300 ppm
PPM Range Carbon Monoxide: 1.0%
PPM Range Carbon Dioxide: 6.0%
Diluent Gas: Nitrogen
Analysis Accuracy: $\pm 1\%$
Valve Outlet: CGA 350
Cylinder Size: AL
Content: 144 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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ITEM 19. Carbon Monoxide, Propane and Carbon Dioxide (CO, C₃H₈, CO₂)
PPM Range Propane: 1200 ppm
PPM Range Carbon Monoxide: 4.0%
PPM Range Carbon Dioxide: 12.0%
Diluent Gas: Nitrogen
Analysis Accuracy: $\pm 1\%$
Valve Outlet: CGA 350
Cylinder Size: AL
Content: 144 C.F.
Pressure: 2000 PSIG
Cylinder Type: Treated Aluminum

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SECTION II:

A. LABORATORY GASES

- ITEM 20. Helium (HE)
Concentration: 99.999% Ultra-High Purity
 $O_2 < 2$ ppm
THC < 0.5 ppm
Valve Outlet: CGA 580
Cylinder Size: A
Content: 280 C.F.
Pressure: 2600 PSIG
Cylinder Type: Steel
- ITEM 21. Hydrogen (H₂)
Concentration: Ultra Hi Purity 99.999% Zero Gas Certified
Analysis for THC < 0.5 ppm
Valve Outlet: CGA 350
Cylinder Size: B
Content: 77 C.F.
Pressure: 2000 PSIG
Cylinder Type: Steel
- ITEM 22. Hydrogen (H₂)
Concentration: Ultra High Purity 99.999% Zero Gas
Certified Analysis for THC < 0.5 ppm
Valve Outlet: CGA 350
Cylinder Size: A
Content: 196 C.F.
Pressure: 2000 PSIG
Cylinder Type: Steel
- ITEM 23. Nitrogen (N₂)
99.99% High Purity
Valve Outlet: CGA 580
Cylinder Size: A
Content: 226 C.F.
Pressure: 2000 PSIG
Cylinder Type: Steel

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SECTION II:

A. LABORATORY GAS - Continued

- ITEM 24. Acetylene
Commercial Grade: 98%
Valve Outlet: CGA 300
Cylinder Size: A
Content: Approx. 350 C.F.
Pressure: @ 70°F 237 PSIG
- ITEM 25. Acetylene
Purified Grade: 99.6%
Valve Outlet: CGA 510
Cylinder Size: A
Content: Approx. 330 C.F.
Pressure: 250 PSIG
- ITEM 26. Air
Grade: Zero Grade
Total Hydrocarbons: <1.0 molar ppm
Valve Outlet: CGA 590
Cylinder Size: A
Content: 330 C.F.
Pressure: 2640 PSIG
- ITEM 27. Argon Gas
Grade: Zero Grade
Total Hydrocarbons: <0.5 molar ppm
Valve Outlet: CGA 580
Cylinder Size: A
Content: 330 C.F.
Pressure: 2200-2460 PSIG

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SECTION II:

A. LABORATORY GAS - Continued

- ITEM 28. Argon Liquid (Dewar)
Grade: 99.998%
Impurities: <1 ppm water, <0.0002 ppm oxygen,
 <0.5 ppm methane, <0.5 ppm carbon
 dioxide, <10 ppm nitrogen
Valve Outlet: GGA 580
Cylinder Size: Dewar - Approx 20" x 60"
Content: Approx 145 liters/4,308 C.F.
Pressure: Bleeder valve set approx 200-230 PSIG
- ITEM 29. Argon/Methane - P5
Grade: 95% Argon/5% Methane
Valve Outlet: CGA 350
Cylinder Size: B
Content: 225 C.F.
Pressure: 2000-2200 PSIG
- ITEM 30. Argon/Methane - Ultra P5
Grade: 95% Argon UHP/5% Methane UHP
Valve Outlet: CGA 350
Cylinder Size: B
Content: 233 C.F.
Pressure: 2000 PSIG
- ITEM 31. Argon/Methane - P10
Grade: 90% Argon/10% Methane
Valve Outlet: CGA 350
Cylinder Size: B
Content: 225 C.F.
Pressure: 2000-2200 PSIG
- ITEM 32. Helium
Grade: Ultra pure 99.9995%
Valve Outlet: CGA 580
Cylinder Size: A
Content: 280 C.F.
Pressure: 2200-2600 PSIG

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SECTION II:

A. LABORATORY GAS - Continued

- ITEM 33. Hydrogen
Grade: Zero Grade 99.997%
Valve Outlet: CGA 350
Cylinder Size: A
Content: 260 C.F.
Pressure: 2200-2400 PSIG
- ITEM 34. Nitrogen Gas
Grade: Zero Grade 99.9985%
Valve Outlet: CGA 580
Cylinder Size: A
Content: 255 C.F.
Pressure: 2640 PSIG
- ITEM 35. Nitrogen Liquid (Dewar/Liquid Use)
Grade: Low pressure 99.999%
Valve Outlet: 1/2 inch male flare fitting
Cylinder Size: Dewar - Approx 20" X 60"
Content: Approx 148-160 liters/3,640 C.F.
Pressure: Bleeder valve set approx 200-230 PSIG
- ITEM 36. Nitrous Oxide
Grade: Technical Grade 99.0%
Valve Outlet: CGA 326
Cylinder Size: B
Content: Approx 60 lbs.
Pressure: 745 PSIG
- ITEM 37. Helium
Grade: High Purity 99.995%
Valve Outlet: CGA 580
Cylinder Size: A
Content: 280 C.F.
Pressure: 2600 PSIG

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SECTION II:

A. LABORATORY GAS - Continued

- ITEM 38. Carbon Dioxide
Grade: Bone Dry 2-8, 99.8% purity
Valve Outlet: CGA 320
Cylinder Size: B
Content: 60 lbs.
Pressure: 838 PSIG
- ITEM 39. Nitrogen, Pre-purified
Purity: 99.9%
Valve Outlet: CGA 580
Content: 300 C.F.
Pressure: 2640 PSIG
- ITEM 40. Air, Breathing Quality
Valve Outlet: CGA 346
Content: 310 C.F.
Pressure: 2640 PSIG
- ITEM 41. Nitrous Oxide
Grade: Technical Grade 99.0%
Valve Outlet: CGA 326
Cylinder Size: B
Content: Approx 60 lbs.
Pressure: 745 PSIG
- ITEM 42. Helium
Grade: High Purity 99.995%
Valve Outlet: CGA 580
Cylinder Size: A
Content: 280 C.F.
Pressure: 2600 PSIG

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SECTION II:

A. LABORATORY GAS - Continued

ITEM 43. Carbon Dioxide
 Grade: Bone Dry 2-8, 99.8% purity
 Valve Outlet: CGA 320
 Cylinder Size: B
 Content: 60 lbs.
 Pressure: 838 PSIG

ITEM 44. Nitrogen, Pre-purified
 Purity: 99.9%
 Valve Outlet: CGA 580
 Content: 300 C.F.
 Pressure: 2640 PSIG